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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/537,501	03/29/2000	Olli Talvitie	460-009334-US(PAR)	6906	
7590 06/09/2004			EXAMINER		
Clarence A Green			LE, DANH C		
Perman & Green LLP 425 Post Road			ART UNIT	PAPER NUMBER	
Fairfield, CT 06430			2683	18	
			DATE MAILED: 06/09/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicati	on No.	Applicant(s)	λ.			
f - 0.00		09/537,5	01	TALVITIE ET AL.	) W			
f	Office Action Summary	Examine	ř	Art Unit				
		DANH C I	_E	2683				
Period fo	The MAILING DATE of this commun or Reply	ication appears on the	e cover sheet with the	correspondence ad	dress			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comr period for reply specified above is less than thirty (3) period for reply is specified above, the maximum st re to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no evenunication. sol) days, a reply within the state tatutory period will apply and were will, by statute, cause the app	ent, however, may a reply be t tutory minimum of thirty (30) da rill expire SIX (6) MONTHS fror blication to become ABANDON	imely filed  ays will be considered timely in the mailing date of this of IED (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) file	ed on <i>30 March 2004</i>						
2a)□								
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	on of Claims							
5)□ 6)⊠ 7)□	Claim(s) 2,5,8,9,12 and 15-21 is/are 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) 2,5,8,9,12 and 15-21 is/are Claim(s) is/are objected to. Claim(s) are subject to restrict	re withdrawn from co	nsideration.					
Applicati	on Papers							
9)[	The specification is objected to by th	e Examiner.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any obje	• • •	·	` '				
11)	Replacement drawing sheet(s) including The oath or declaration is objected to	•		•	, ,			
Priority (	ınder 35 U.S.C. § 119							
12)□ a)∣	Acknowledgment is made of a claim  All b) Some * c) None of:  1. Certified copies of the priority  2. Certified copies of the priority  3. Copies of the certified copies application from the Internationsee the attached detailed Office actions	documents have been documents have been of the priority documental Bureau (PCT Rule)	en received. en received in Applica ents have been receiv le 17.2(a)).	tion No ved in this National	Stage			
Attachmen	•							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F	PTO 048)	4) Interview Summar Paper No(s)/Mail [					
3) 🔲 Infor	e of Dransperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date	•	5) Notice of Informal 6) Other:		)-152)			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 2, 5, 12, 16, 17, 20 are rejected under 35 U.S.C. 102(a) as being anticipated by Madahiro (US 6,049,310).

As to claim 2, Madahiro teaches the system for matching an antenna for a wireless communication device (figure 1, 9 and col.7, lines 34-36 and col.11, lines 1-64), characterized in that it comprises:

detecting means to detect the matching of the antenna by measuring the distance of the wireless communication device from objects in the vicinity of the wireless communication device at the time and means to generate a matching signal on the basis of the distance measurement,

control means to examine said matching signal, to determine the need for matching, and to generate a control signal on the basis of said matching signal, and antenna matching means to adjust the matching of the antenna on the basis of said control signal.

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As to claim 5, the claim is an apparatus of claim 2; therefore, the claim is interpreted and rejected as set forth in the claim 2.

As to claim 12, the claim is a method of claim 2; therefore, the claim is interpreted and rejected as set forth in the claim 2.

As to claim 16, Madahiro teaches the system for matching an antenna for a wireless communication device (figure 1, 9 and col.7, lines 34-36 and col.11, lines 1-64), characterized in that it comprises:

Antenna driving electronics (figure 1,11),

detecting means to detect the matching of the antenna by measuring the distance of the wireless communication device from objects in the vicinity of the wireless communication device at the time and means to generate a matching signal on the basis of the distance measurement,

control means to examine said matching signal, to determine the need for matching, and to generate a control signal on the basis of said matching signal, and antenna matching means coupled to said driving electronics to adjust the matching of the antenna on the basis of said control signal so that as much as possible of the power of the antenna driving electronics radiators from the antenna.

As to claim 17, the claim is an apparatus of claim 16; therefore, the claim is interpreted and rejected as set forth in the claim 16.

As to claim 20, the claim is a method of claim 16; therefore, the claim is interpreted and rejected as set forth in the claim 16.

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3. Claims 8 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Madahiro in view of Terk (US 5,812,066).

As to claim 8, Madahiro fails to teach the means to measure the distance comprises an infrared transmitter and receiver. Terk teaches wireless communication device according to claim 7, characterized in that said means to measure a distance comprise an infrared transmitter (col.13, lines 21-41) and an infrared receiver (col.12, line 43-col.13, line 2).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Terk into the system of Madahiro in order to provide enhanced system performance of the portable radio apparatus having adaptive antenna matching.

As to claim 18, the limitation of the claim is the same limitation of claim 8; therefore, the claim is interpreted and rejected as set forth as claim 8.

4. Claims 9, 15, 19, 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Madahiro in view of Tamura (US 5,335,638).

As to claim 9, Madahiro teaches the wireless communication device according to claim 5. Madahiro fails to teach the antenna is arranged to be placed in at least two different positions, characterized in that said detecting means comprise means to examine the position of the antenna and means to generate the matching signal on the basis of the position of the antenna. Tamura teaches the antenna (20) is arranged to be placed in at least two different positions, characterized in that said detecting means comprise means to examine the position of the antenna (20) and means to generate the

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matching signal on the basis of the position of the antenna (col.3, line 14-col.4, line 40). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Tamura into the system of Madahiro in order to provide enhanced system performance of the portable radio apparatus having adaptive antenna matching.

As to claim 15, Tamura further teaches the wireless communication device comprising at least a keypad cover (10) arranged to be placed in at least two different positions, characterized in that said detecting means comprise means to examine the position of the keypad cover (10) and means to generate the matching signal on the basis of the position of the keypad cover (40).

As to claim 19, the limitation of the claim is the same limitation of claim 9; therefore, the claim is interpreted and rejected as set forth as claim 9.

As to claim 21, the limitation of the claim is the same limitation of claim 15; therefore, the claim is interpreted and rejected as set forth as claim 15.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANH C LE whose telephone number is 703-306-0542. The examiner can normally be reached on 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WILLIAM TROST can be reached on 703-308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Danh C.Le

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